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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,724	02/03/2004	James E. Chomas	2003P14530US	2282
7590	12/13/2005		EXAMINER	
Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830			JAWORSKI, FRANCIS J	
			ART UNIT	PAPER NUMBER
			3737	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/770,724	CHOMAS ET AL.
	Examiner	Art Unit
	Jaworski Francis J.	3737

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 February 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1 - 27 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 17 - 22 is/are allowed.
 6) Claim(s) 1-8, 11, 12, 14, 15, 23 and 26 is/are rejected.
 7) Claim(s) 9, 10, 13, 16 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 03 February 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 2-3-04.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-8, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Poland (US6080107) in view of Brock-Fisher et al (US6438258) insofar as the former is directed to repeated quantization measurements of contrast agent concentration post-baseline and during washout with time during an imaging session and including automatic regulation of transmit power gain or normalization of received signal levels by adjusting applied power and based upon measured concentrations, see col. 4 lines 1 – 24, col. 12 lines 21 – 46 . Although Poland is not directed to receive gain control, it would have been further obvious in view of Brock-Fisher et al col.3 line 62 – col. 5line 7 to normalize receive gain in order to perform quantification measurements based upon the contrast agent second harmonic.

Claims 1, 11-12, 14 – 15, 23 , 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chandler (US5860931) insofar as col. 5 line 52 – col. 6 line – 28 is argued to be descriptive of a contrast agent destruction method wherein the ultrasound system performs a contrast agent quantification measurement where for each measurement the system is injecting contrast agent to travel into a region, transmitting energy for destroying contrast agent in an overall region of interest while automatically setting a transmit gain parameter adaptively determined by integrated backscatter across the chamber and tissue of the region of interest to standardize the contrast agent region intensity with respect to surroundment and then detecting contrast agent perfusion inflow immediately thereafter in order to achieve the quantification, such process as described being related to echo data and to the respective subregions,

and where the contrast agent detection region is effectively definable by the gain applied.

Allowable Subject Matter

Claims 17 – 22 are allowed.

Claims 9-10, 13, 16, 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following additional automatic gain control systems associated with contrast agent quantification are cited as of interest as having been considered for relevance to this application: Rust et al (US 6666824), Loftman et al (US6679844), Simopoulos (US6579238).

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738.

FJJ:fjj

120805



Francis J. Jaworski
Primary Examiner